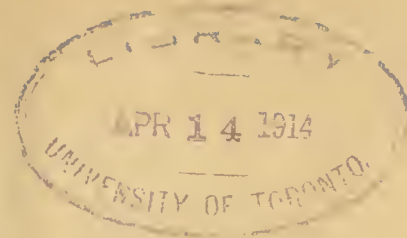


STORAGE



DEPARTMENT OF MARINE AND FISHERIES, CANADA. METEOROLOGICAL SERVICE.

Monthly Weather Review

VOL. XXXVIII.

JANUARY, 1914

No. 1

INTRODUCTION.

In compiling the present Review, the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm-signal agents. For the data used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

HIGH AREAS.

Eleven areas of high pressure were charted. Five first appeared in the neighborhood of the Yukon Territory, one to the northward of and one over Manitoba, and four in the Pacific States. Four areas passed over, three far to the northward, and the remainder to the southward of the Great Lakes. Several of the systems were of considerable energy, especially during the second and third decades of the month, attended by some very low temperatures, and in consequence the latter half of January was generally very cold over the greater portion of the Dominion.

LOW AREAS.

Sixteen areas of low pressure were charted. Eight first appeared in the far northwestern portion of the continent, four in the North Pacific States, one in the Middle Pacific States, two in the Southwestern States, and one on the Atlantic between the Florida Coast and Bermuda. The general path of the areas was over the Great Lakes, thence to the Maritime Provinces and Newfoundland. Many of the systems were pronounced, and especially so in the Maritime Provinces and Newfoundland, where some very heavy gales were experienced.

ATMOSPHERIC PRESSURE.

Exceptionally low barometer readings were recorded during January, this being especially the case on the Atlantic and Pacific coasts, and the resultant mean atmospheric pressure was sub-normal throughout Canada. In British Columbia the departure from average was from -0.30 to -0.40 of an inch, and in the Western Provinces about -0.20 of an inch, while in Ontario, Quebec and the Maritime Provinces it was generally about -0.10 of an inch, although in Northern Districts of Quebec and Northeastern Ontario it was about -0.05 of an inch. The results obtained at the Telegraph Reporting Stations are considered indicative of the general conditions of the distribution of atmospheric pressure.

CAPITATION.

Where no difference from normal is assigned, observations over a period long enough for reference are not available.

PROVINCE AND DISTRICT.	TEMPERATURE (FAHR.).						PRECIPITATION.				STATION DIFFERENCES FROM NORMAL TEMPERATURE
	Mean Daily.	Mean Daily Maximum.	Mean Daily Minimum.	Mean Daily Range.	Extreme Highest.	Extreme Lowest.	Total in Inches.	Difference from Normal.	Number of Days.	Greatest Fall.	
BRITISH COLUMBIA—											
South Vancouver Island....	38.8	43.2	34.4	8.8	51	16	12.03	+ 70%	25	3.97	+2° to 4°
The Red Deer River.....	39.9	41.6	34.3	7.3	53	20	16.16	+ 40%	23	3.55	-2°
Lower Fraser River.....	37.1	40.9	33.3	7.6	56	9	11.49	+ 55%	24	4.71	+4° to 6°
Upper Fraser River.....	19.0	26.4	11.7	14.7	52	-36	2.68	+ 50%	10	3.60	+7°
Okanagan Valley.....	29.0	35.0	23.0	12.0	52	-8	2.20	+ 50%	13	1.35	+5° to 8°
West Kootenay.....	30.5	35.7	25.3	10.4	53	-1	5.23	+ 130%	20	1.40	+6° at Nelson
East Kootenay.....	25.4	32.8	18.0	14.8	48	-11	4.10	+ 20%	13	1.25	+8° at Eiko
Thompson River.....	33.8	34.8	23.8	11.0	50	-13	2.45	+ 18%	13	0.75	+5° to 12°
North Columbia River.....	22.9	28.3	17.5	10.8	44	-14	7.00	+ 20%	20	1.30	+2° to 12°
North Coast.....	29.4	33.3	19.9	10.7	50	0	4.98	+ 30%	11	2.80	+2.5° at Bella Coola
Queen Charlotte Islands....	36.2	40.4	32.0	8.4	49	14	13.45	.....	20	3.92	-1°
ALBERTA—											
North Saskatchewan River....	5.9	16.0	-4.2	20.2	56	-43	0.79	.....	6	0.60	-0.5° to 5.5°
The Red Deer River.....	10.1	15.7	4.6	11.1	56	-44	1.11	+ 120%	7	9.60	+4°
The Bow River.....	15.9	26.8	5.0	21.8	58	-34	0.88	+ 166%	5	0.60	+1° to 5°
Athabasca River.....	7.2	26.5	-12.1	38.6	40	-40	0.53	.....	3	0.23	.....
Peace River.....	-1.3	12.1	-10.5	23.6	37	-54	1.00	.....	7	0.50	.....
SASKATCHEWAN—											
Qu'Appelle River.....	6.8	16.1	-2.5	18.6	51	-38	1.00	+ 165%	8	0.60	+3° to 12°
S. Saskatchewan River.....	12.6	22.6	2.6	20.0	58	-29	1.10	+ 20%	.....	0.80	+5° to 7°
N. Saskatchewan River.....	2.9	12.4	-6.6	19.0	47	-44	0.80	.....	6	0.60	+7° at Battleford
Saskatchewan Forks.....	3.5	13.2	-6.2	19.4	38	-38	0.72	+ 20%	5	0.35	+3° to 8°
Lower Saskatchewan River....	1.9	8.5	-4.7	13.2	35	-31	.....	.....	.....	.....	.....
MANITOBA—											
Qu'Appelle and Assiniboine Rivers.....	5.5	15.8	-4.7	20.5	45	-43	1.62	+ 50%	10	0.81	+5° to 8°
The Red River.....	6.7	15.4	-2.0	17.4	41	-34	1.54	+ 35%	8	1.20	+6° to 10°
Dauphin Lake and River....	2.3	11.7	-7.2	18.9	47	-37	1.52	.....	7	0.70	.....
ONTARIO—											
Lake Superior Districts—											
Rainy River.....	4.8	13.5	-3.9	17.4	34	-35	1.01	00%	6	0.50	+6° at Kenora
Thunder Bay.....	10.3	20.7	-0.1	20.8	41	-28	1.56	+ 25%	7	1.20	+6° to 10°
Algoma.....	9.4	21.1	-2.3	23.4	46	-48	1.85	.....	10	1.06	+2°
Nipissing.....	6.2	17.8	-5.4	28.2	51	-38	2.55	+ 20%	14	1.10	+1° at Haileybury
Upper Ottawa River.....	8.1	18.1	-1.9	20.0	43	-35	2.30	.....	15	0.60	-1° to +2°
Upper St. Lawrence and Ottawa Rivers.....	12.9	22.0	3.8	18.2	49	-39	2.80	+ 20%	12	0.95	-1°
Georgian Bay Counties.....	17.4	26.9	7.9	19.0	52	-43	3.03	- 20%	12	1.03	0° to +3°
Lake Huron Counties.....	24.8	31.2	18.4	12.8	52	-14	3.04	- 12%	15	1.00	+1° to 6°
Lakes St. Clair & Erie, Niagara Peninsula.....	27.3	34.0	20.6	13.4	65	-26	2.68	- 7%	10	1.20	+1° to 6°
West Central Counties.....	23.3	32.9	13.7	19.2	55	-26	3.00	00%	12	1.48	+1° to 6°
Lake Ontario Counties.....	21.0	28.6	14.4	15.2	51	-31	3.14	+ 35%	13	0.90	+2° to 3°
East Central Counties.....	15.5	26.0	25.0	21.0	57	-39	2.73	- 20%	10	1.00	+1° to 2°
QUEBEC—											
Middle St. Lawrence.....	7.3	17.9	-3.3	21.2	51	-36	3.30	.....	11	1.50	0° to -1°
Lower St. Lawrence & Gulf.	7.6	17.0	-1.8	18.8	52	-31	1.48	- 45%	6	0.70	-2° to +1°
Lake St. John.....	1.6	11.6	-8.4	20.0	50	-38	1.10	- 38%	7	0.80	.....
Northwestern Districts.....	6.1	16.7	-4.5	21.2	46	-46	2.09	- 30%	9	1.50	+1° at Abitibi
NEW BRUNSWICK—											
All Stations.....	13.0	23.5	2.5	21.0	47	-28	3.27	- 25%	10	3.38	-1° to -4°
NOVA SCOTIA—											
All Stations.....	20.4	28.9	11.9	17.0	54	-24	2.68	- 25%	9	1.22	-1° to -2°
PRINCE EDWARD ISLAND—											
All Stations.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

FREE AIR DATA

REGISTERING BALLOON ASCENT AT WOODSTOCK.

(Lat. 43° 8' N., Long. 80° 47' W.) on January 8th, 1914.

Instrument—Dines Meteorograph.

Fell—245 km. distant S.78°E.

Beginning of Ascent—1 a.m. G.M.T.

Maximum Height—12.3 km.

Barometer—719 mm.

Minimum Temperature = -51.0° C.

Temperature = 1.1° C.

Direction of flight at Beginning—North.

Height in km. above S.L.	Pressure in mm.	Temperature in Centigrade degrees.	
G.L. = 0.3	719	1.1	
0.5	699	0.0	— 1.0
1.0	658	6.0	— 1.5
1.15	646	6.5	4.5
1.5	618	4.5	3.5
2.0	580	2.0	0.0
2.5	544	— 1.5	— 3.0
3.0	510	— 4.0	— 5.5
3.5	478	— 8.0	— 9.0
4.0	448	—11.0	—12.5
4.5	418	—15.0	—16.0
5.0	391	—18.5	—19.5
5.5	366	—21.5	—23.0
6.0	340	—25.5	—27.0
6.5	318	—29.0	—31.0
7.0	295	—33.5	—35.0
7.5	274	—37.0	—38.5
8.0	256	—40.0	—41.5
8.5	237	—43.5	—45.0
9.0	220	—45.5	—47.0
9.5	203	—47.5	—48.5
10.0	189	—50.0	
10.3	182	—51.0	
11.0	164	—50.5	
11.6	148	—46.5	
12.0	139	—46.0	
12.3	133	—46.0	

Pressure was low over the whole continent, the centres of lowest pressure being over Iowa and Alberta, and off the Newfoundland Coast.

WINDS, JANUARY, 1914

PROVINCES AND STATIONS.	Total Mileage.	Greatest Mileage in 24 hours.	Greatest Mileage in 1 Hour			Number of Days of			GENERAL DIRECTION
			Miles	Direction	Date	Gales	Strong Winds	Fresh Winds	
BRITISH COLUMBIA.									
Atlin.....	2175	276							E E E E E
Prince Rupert.....									
Victoria.....	7090	465	36	W	26	4	14	8	
Point Garry.....	9603	587	40	NW	27	12	0	9	
Vancouver.....									
Kamloops.....	2368	191	21	SW	27		1	3	E
ALBERTA.									
Edmonton.....	3742	232	17	E	11-26-26			8	SW NW
Calgary.....	2251	222	20	SW	6		1	7	
SASKATCHEWAN.									
Battleford.....									SE
Prince Albert.....	2290	205	15	NW	10			5	
Swift Current.....	8168	431							SW NW
Qu'Appelle.....	7654	538	33	NW	28	1	14	10	
MANITOBA.									
Le Pas.....	5587	403							W SE, NW
Winnipeg.....	8877	486	35	S.S.E	5	3	11	13	
ONTARIO.									
Port Arthur.....	5822	388	33	SW	29	1	6	5	NW NE, E
White River.....	3986	295	28	NW	29		2	10	
Cochrane.....	5497	490	31	W	29	1	3	13	N, NW SE
Parry Sound.....	7048	464	23	SW	29		6	18	
Souhampton.....									S
Pelea Island.....	*11764	845	55	SW	30	12	15	3	
Woodstock.....	8584	512	30	SW, NW	11-27-31	3	12	13	SW NW
Guelph.....	8828	523							
Toronto.....	11064	778	49	E	31	8	18	4	N NE
Kingston.....	*7170	441							
Stonecliffe.....	4191	257	16	NW	12-30			10	E E
Ottawa.....									
QUEBEC.									
Montreal.....	11844	726	41	NW	30	6	14	10	NE
Sherbrooke.....									
Quebec.....	11716	868	57	NE	31	14	7	8	NE N, SW
Father Point.....	8698	867	43	W	30	6	10	5	
Anticosti, SW.....	8698								
Harriagton.....									
NEW BRUNSWICK									
Pt. Escuminac.....	14029	919	51	W	26	15	10	4	NW NW
Fredericton.....	093	590	38	SW	30	3	8	6	
St. John.....	11233	673	41	NW	25	7	13	10	NW N, NE
Pt. Lepreaux.....	14221	865	45	NW	14	16	7	7	
NOVA SCOTIA									
Yarmouth.....	11697	620	44	SW	25				NW
Wolfville.....									
Halifax.....	11311	800	41	SW	25		13	9	NE
Sable Island.....									
Flat Point.....	17127	1426	60	E	18	23	4	30	NE
PRINCE EDWARD ISLAND									
Charlottetown.....	7784	492	30	SW	30	1	12	11	NE

* Record for 30 days

TEMPERATURE AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA. JAN., 1914.

*Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	TEMPERATURE.							PRECIPITATION.							
				Mean.	Difference from average.	Yr's Observations.	Highest.	Date.	Lowest.	Date.	Mean daily range.	Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more.	No. of fair days.	No. of aurora.	No. of thunderstorms.	No. of fogs.
BRITISH COLUMBIA—																		
S. Vancouver Island																		
Alberni (Beaver Creek).....	49 15	124 49	300	36.1	+ 2.4	17	50.0	31	16.0	28	8.4	16.29	+6.29	2.30	26	5	..	1
Clayoquot.....	49 11	125 55	27	41.1	+ 1.6	15	50.0	3-19	28.0	27	16.5	21.55	+6.66	3.24	21	7	..	..
Clo-ose.....	49 40	124 50	33	40.4	—	12	52.0	10	34.0	27	9.7	2.91	—	0.24	25	6	..	..
Cobble Hill.....	48 25	123 42	170	40.2	—	7	54.0	21.0	28	8.4	13.04	11.32	—	1.85	25	6	..	..
Cowichan (Tzouhalem).....	49 40	124 0	38.5	—	—	2	50.3	4	21.6	28	7.5	10.37	—	2.58	27	4	..	..
Departure Bay.....	49 40	124 32	37.2	—	—	1	51.0	5	19.5	28	9.8	10.27	—	1.89	24	7	..	..
Gillis Bay.....	48 57	123 39	37.7	—	—	1	53.0	3	20.0	27	9.9	17.34	—	1.50	25	6	..	..
Ladysmith.....	49 10	123 37	125	39.8	+ 4.0	13	52.0	4	24.0	27-28	7.4	10.89	+6.24	3.97	23	8	..	1
Nanaimo.....	49 17	124 12	130	38.0	—	2	51.0	6	20.0	28	9.4	9.17	—	1.90	25	6	..	..
Nanose Bay.....	49 17	124 12	130	37.1	—	1	49.0	4-5-6	20.0	28	9.5	7.75	—	1.65	23	8	..	..
Qualicum Beach.....	48 50	123 20	38.8	—	—	5	52.0	4-6	21.0	28	7.8	13.45	—	2.28	28	3	..	..
Salt Spring Island.....	48 37	123 41	37.0	—	—	1	50.0	4-7	19.0	28	8.4	13.29	—	2.36	25	6	..	..
Shawnigan Lake.....	48 41	123 44	25	39.7	—	4	50.0	4-6-19	24.0	28	9.2	14.22	—	2.55	26	5	..	..
Sooke.....	48 24	123 19	95	42.1	+ 2.0	22	52.2	11	28.0	28	6.8	8.47	+3.93	2.80	27	4	..	..
Victoria.....	48 24	123 19	95	42.1	+ 2.0	22	52.2	11	28.0	28	6.8	8.47	+3.93	2.80	27	4	..	..
N. Vancouver Island																		
Alert Bay.....	50 33	127 9	38.4	—	—	1	50.0	7	26.0	26	3.8	6.13	—	2.37	23	8	..	..
Holberg.....	50 39	128 18	37.8	—	—	4	53.0	6	20.0	28	8.8	23.89	—	3.55	24	7	..	..
Quatsino.....	50 32	127 40	37.6	- 2.3	17	50.0	6-11	25.0	28	9.3	18.46	+5.59	3.08	21	10	..	..
Triangle Island.....	50 52	129 5	680	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lower Fraser River																		
Agassiz.....	49 14	121 31	52	38.0	+ 3.6	23	49.0	4-6-11	12.0	28	10.5	13.96	+7.16	3.68	19	12	..	..
Britannia Beach.....	49 39	123 5	165	38.8	—	1	56.0	6	24.0	27-28	7.3	16.85	—	2.98	28	3	..	..
Chilliwack.....	49 10	121 57	21	36.9	+ 6.7	12	52.0	6	15.0	28	7.8	14.68	+6.16	4.71	27	4	..	..
Hope.....	49 25	121 25	500	33.6	—	4	45.5	6	16.5	29	6.5	10.94	—	2.77	20	11	..	..
Ladner.....	49 05	123 4	43.4	+ 0.6	13	55.0	6	30.0	23-26	6.8	5.45	+0.66	1.25	13	18	..	..
New Westminster.....	49 13	122 54	330	38.8	+ 2.2	26	51.7	2	22.1	28	6.9	9.95	+1.38	1.79	29	2	..	..
North Nicomen.....	49 12	122 2	59	38.6	+ 3.7	22	53.0	4	22.0	28	9.7	17.01	+8.25	3.33	28	3	..	..
Pemberton Hatchery.....	50 20	122 33	30.4	—	—	6	40.0	30	12.0	28	6.2	5.85	—	1.15	19	12	..	..
Pemberton Meadows.....	50 29	122 40	27.9	—	—	1	37.0	7-12	9.0	23-24	6.5	10.78	—	2.00	22	0	..	..
Itasca (Stave Falls).....	49 16	122 23	125	38.2	—	5	52.0	5	22.0	28	7.2	12.22	—	1.79	29	2	..	..
Roskin (Stave Falls).....	49 16	122 23	125	38.2	—	5	52.0	5	22.0	28	7.2	12.22	—	1.79	29	2	..	..
Steveston (Garry Point).....	49 21	123 17	40.6	+ 4.8	18	52.0	3-12	26.0	28	8.3	8.41	+2.92	1.45	26	5	..	..
Vancouver.....	49 17	123 6	136	40.5	+ 3.0	13	55.6	11	25.9	28	6.5	10.56	+2.38	2.00	30	1	..	..
Upper Fraser River																		
Babine Lake.....	55 39	126 26	15.2	—	—	6	35.0	3	1.0	26	10.1	2.00	—	0.60	10	21	..	..
Barkerville.....	53 02	121 35	4180	16.7	- 1.8	24	36.0	4-11	-25.0	28	14.0	4.60	+1.87	0.80	14	17	..	..
Chilcotin (Big Creek).....	51 40	120 50	3100	14.0	+ 0.9	11	40.0	11	-22.0	28	20.8	1.05	+0.41	0.40	6	25	..	..
Cranberry Lake (South Frk).....	119 20	52 50	2460	17.1	—	1	38.2	7	-36.0	28	16.8	4.52	—	3.60	11	20	..	..
Fifteen Mile Ranch (Pavilion).....	50 40	120 50	21.6	—	—	1	44.0	2	9.0	26-27	8.6	1.40	—	0.33	10	21	..	..
Fort George.....	54 28	124 12	2280	9.9	+ 0.1	21	40.0	12	-36.0	28	17.2	1.31	-0.26	0.23	13	18	..	..
Fort St. James (Stuarta Lake).....	52 42	122 5	21.5	—	—	2	52.0	11	-25.0	28	15.0	3.10	—	0.50	12	19	..	..
Hydraulic.....	62 59	122 30	1700	20.0	+ 7.0	19	46.0	12	-27.0	28	13.0	1.52	+0.28	0.50	6	23	..	..
Quesnelle.....	62 59	122 30	1700	20.0	+ 7.0	19	46.0	12	-27.0	28	13.0	1.52	+0.28	0.50	6	23	..	..
Okanagan Valley																		
Duck Lake Ranch.....	50 3	119 20	1400	30.6	—	1	47.0	7	11.0	28	9.9	2.88	—	0.37	16	15	..	..
Hedley.....	49 35	120 10	1771	30.8	—	10	46.0	4	7.0	27	12.1	1.26	—	0.18	12	19	..	..
Hedley (Nickel Plate).....	49 20	119 59	20.0	—	—	10	35.0	4-8	9.0	28	11.6	3.45	—	1.20	11	20	..	..
Keremeos.....	49 15	120 0	1372	31.8	—	7	49.0	7	7.5	23	10.3	2.20	—	0.44	15	16	..	..
Kelowna (Okanagan Mission).....	49 16	119 29	1200	30.8	+ 5.2	14	45.0	6-7	11.0	28	9.9	2.34	+0.88	0.42	14	17	..	..
Penticton.....	49 29	119 35	34.3	—	—	7	51.5	7	9.0	23	11.0	2.13	—	0.29	23	8	..	..
Princeton.....	49 29	120 29	1660	24.5	+ 7.7	18	42.0	16	- 8.0	28	14.4	2.36	+1.05	0.46	15	16	..	..
Richland.....	50 18	118 35	29.3	—	—	2	50.0	6	3.0	27	15.4	1.61	—	1.35	2	29	..	..
Summerland.....	49 36	119 40	1100	30.0	—	7	49.0	7	8.0	23	12.4	1.91	—	0.45	10	21	..	..
Vernon (Coldstream Ranch).....	50 14	119 15	1582	29.4	+ 7.8	20	50.0	7	7.0	28	12.1	1.25	+0.09	0.30	8	23	..	..
West Kootenay																		
Crawford Bay.....	49 45	116 45	2000	31.3	—	2	43.0	7	11.0	23	9.4	7.45	—	1.09	26	6	..	..
Creston.....	49 6	116 33	1985	29.8	—	2	48.0	7	7.0	22	13.0	3.38	—	0.75	19	12	..	..
Fauquier.....	49 40	118 9	32.1	—	—	1	49.0	5-7	13.0	28	10.3	5.95	—	0.35	17	14	..	..
Grand Forks.....	49 2	118 27	1746	29.6	—	3	47.0	7	7.0	28	9.2	2.00	—	0.25	18	13	..	..
Greenwood.....	49 1	118 6	2400	28.7	—	3	53.0	16	- 1.0	27	20.0	4.21	—	1.00	18	14	..	..
Howser.....	50 18	117 0	30.8	—	—	2	48.0	7	12.0	24	10.9	4.75	—	1.40	19	12	..	..
Kaslo.....	49 52	117 0	1752	31.2	—	5	44.0	6-7-8	15.0	24	8.9	7.17	—	0.58	20	11	..	1
Nakusp.....	50 14	117 49	33.9	—	—	2	42.0	6	5.5	28	7.9	5.24	—	1.16	17	14	..	..
Nelson.....	49 29	117 21	1760	30.0	- 5.7	12	46.0	7	12.0	28	4.5	6.10	+3.48	1.16	20	11	..	..
Pend d'Oreille (Waneta).....	49 5	117 48	2260	29.0	—	1	45.0	8	6.0	28	11.0	5.51	—	0.76	22	9	..	..
Perry Siding.....	49 5	117 48	1760	29.1	—	1	44.0	7	10.0	22-28	9.9	4.75	—	1.05	16	15	..	..
Rossland.....	49 5	117 48	3400	28.8	—	11	40.5	6-7	11.5	28	5.5	5.56	—	1.05	16	15	..	..
East Kootenay																		
Cranbrook.....	49 30	115 50	25.9	—	—	5	46.0	5-7	-10.0	23	20.6	3.63	—	1.16	10	21	..	..
Fernie.....	49 30	115 3	3305	25.7	—	1	47.0	6	- 6.0	21	15.9	10.94	—	1.25	26	5	..	..
Fruitlands (Elko).....	49 1	115 5	2684	30.7	+ 8.1	18	48.0	5	1.0	23	10.0	1.91	+0.31	0.60	7	24	..	..
Invermere.....	50 30	116 2	2650	22.3	—	2	46.0	6	-11.0	23	15.9	1.80	—	0.48	10	21	..	..
Wilmer.....	60 34	116 14	3300	22.6	—	5	44.0	7	0.0	23	11.9	2.18	—	0.47	11	20	..	..
Thompson River																		
Armstrong.....	50 26	119 11	27.1	—	—	1	41.0	6-7	- 3.5	23	11.4	2.80	—	0.47	16	15	..	..
Ashcroft.....	50 32	119 7	1180	27.8	—	1	47.0	7-12	-19.0	28	12.3	3.13	—	0.47	14	17	..	..
Chinook Cove.....	50 32	119 7	1180	29.0	+ 6.7	12	42.0	16	- 1.0	27	10.2	2.52	-0.03	0.40	15	16	..	..
Enderby.....	50 41	120 29	1245	29.8	+ 5.1	23	50.4	6	- 1.5	28	11.3							

TEMPERATURE AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, JAN., 1914.

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STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	TEMPERATURE							PRECIPITATION			Days with 0.1 or more.	No. of fair days.	No. of aurora.	No. of thunderstorms.	No. of fogs					
				Mean.	Difference from average.	Yr's Observations.	Highest.	Date.	Lowest.	Date.	Mean daily range.	Amount.	Difference from average.						Heaviest fall in month.				
BRITISH COLUMBIA—Con.																							
North Columbia River																							
Glacier.....	51 14	117 29	4072	20.5	+ 2.0	12	35.0	7	3.0	25-29	8.9	10.45	+1.80	1.10	25	6	..	..			
Golden.....	51 0	118 6	1476	20.5	+11.8	12	44.0	6	-14.0	24	14.1	3.65	-2.36	0.30	15	16	..	..			
Revelstoke.....	51 16	116 5	2550	27.8	+ 7.3	13	40.0	8	6.0	28-30	9.4	9.89	+4.35	1.30	22	9	..	..			
North Coast																							
Beila Coola.....	52 40	126 54	150	27.6	+ 2.5	14	41.0	3	5.0	26	8.8	5.17	+1.17	2.80	8	23	..	2					
Prince Rupert.....	54 18	130 18	170	35.7	—	4	50.0	3	8.0	27	7.4	6.36	—	1.03	19	12	..	..			
Stewart.....	56 1	130 1	215	21.0	—	4	36.0	11	-2.0	27	8.5	3.73	—	1.20	12	19	..	..			
Terrace.....	54 30	128 30	545	24.8	—	1	39.0	6 10	0.0	28	7.2	3.42	—	0.80	5	26	..	..			
Queen Charlotte Islands																							
Ikeda Bay.....	52 17	131 7	6	37.7	—	6	49.0	11	27.0	26	8.0	20.12	—	3.92	10	12	..	..			
Massett.....	53 58	132 9	10	34.6	-10.0	17	47.0	1-6	14.0	27	8.9	6.81	+0.93	0.92	20	11	..	..			
Yukon Boundary																							
Atlin.....	69 35	133 38	2240	-5.7	—	8	23.0	8-14	-37.5	23	12.9	0.70	—	0.15	8	23	..	..			
YUKON—																							
Carcross.....	60 11	134 34	2171	8.9	—	7	20.0	12	-45.0	28	17.3	0.70	—	0.20	5	26	..	3					
Dawson.....	64 4	139 29	1200	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
ALBERTA—																							
N. Saskatchewan River																							
Cambridge.....	54 8	114 42	..	3.7	—	7	44.8	5	-42.6	24	21.4	0.77	—	0.32	11	20	1	1					
Coronation.....	..	..	..	..	..	7	..	..	..	..	..	..	..	..	..	..	..	..
Daysland.....	55 52	112 17	..	6.8	—	7	43.0	5	-30.0	24	16.7	0.56	—	0.20	4	27	..	..			
Edmonton.....	53 33	113 30	2158	7.8	+ 0.5	30	42.5	5	-29.0	24	17.6	1.04	+0.33	0.22	11	20	1	..					
Endiang.....	52 0	112 0	2705	9.3	—	3	53.0	7	-33.0	28	19.4	0.80	—	0.45	3	28	..	..			
Halkirk (Emsburg).....	52 17	112 10	..	5.8	—	8	43.0	6	-34.0	28	18.5	1.10	—	0.40	3	28	..	4					
Lloydminster.....	53 18	110 0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Loveland.....	52 30	111 59	..	6.5	—	4	50.0	6	-38.0	23-29	21.2	1.30	—	0.60	4	27	..	..			
Ranfurly (Waitefield).....	53 29	111 38	2000	4.3	+ 5.5	10	42.0	5	-39.0	29	21.5	0.40	-0.39	0.12	9	22	..	5					
Sedgewick.....	52 47	111 41	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sion.....	53 54	114 15	..	6.9	—	3	38.0	7	-37.0	24	25.0	1.98	—	0.60	16	15	..	..			
Vermilion.....	53 22	110 50	..	2.5	—	1	39.5	7	-37.0	29	19.9	0.28	—	0.15	5	26	3	..					
Wadena.....	51 39	111 5	..	5.2	—	1	48.0	6	-36.0	29	20.6	0.30	—	0.30	1	30	..	..			
Wetaskiwin.....	52 68	113 23	2480	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
The Red Deer River																							
Alix.....	52 24	113 10	2585	10.8	—	11	62.0	7	-28.0	25	24.1	1.59	—	0.53	9	22	..	1					
Alonsk.....	..	..	..	7.3	—	1	51.0	7	-35.0	24	20.1	0.60	—	0.20	5	26	..	1		
Clemens.....	51 15	114 44	..	10.9	—	1	52.0	6-7	-27.0	29	17.1	0.98	—	0.60	7	24	..	4					
Delia.....	51 38	112 25	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Didsbury.....	51 40	114 8	3300	17.8	+ 4.4	12	56.0	6	-25.0	28	18.0	1.30	+0.90	0.28	4	27	..	..			
Harmattan.....	51 45	114 23	3500	10.2	—	6	55.0	7	-36.0	24	27.4	0.80	—	0.30	6	25	..	..			
Hillsdown.....	52 14	113 29	2040	10.5	+ 3.7	11	52.5	6	-34.0	24	20.9	1.40	+0.57	0.30	9	22	..	1					
Isaemba (Ex. Farm).....	52 68	113 44	2783	9.2	—	7	53.6	6	-36.1	24	23.6	1.45	—	0.50	7	24	..	..			
Moose (Tyrol).....	51 15	110 39	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Perbeck.....	51 58	113 5	..	7.6	—	1	56.0	6	-33.5	24	19.2	0.65	—	0.10	5	26	..	2					
Red Deer.....	52 16	113 40	28 06	8.7	—	14	51.0	4	-39.0	24	27.1	1.12	—	0.40	7	24	..	..			
Springdale.....	52 51	110 12	..	8.2	—	1	51.7	6	-44.4	23	22.1	1.18	—	0.50	12	19	..	..			
The Bow River																							
Brooks.....	50 34	111 54	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Calgary.....	51 2	114 2	3427	16.3	+ 3.6	29	56.0	6	-26.0	23	19.4	0.93	+0.47	0.42	8	23	..	..			
Expanse Coules.....	51 2	114 2	3427	14.5	—	1	54.0	6	-20.8	24	19.7	1.00	—	0.25	9	22	..	..			
Gleichen.....	50 69	112 51	2952	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
High River.....	50 35	113 53	3304	14.3	—	3	51.0	7	-28.0	24	21.8	0.60	—	0.40	2	29	..	..			
Lawrence (Parkland).....	50 16	113 26	3500	19.1	—	7	52.0	5-6-9	-28.0	28	21.7	0.85	—	0.30	5	26	..	1					
Lethbridge (Exp. Farm).....	49 43	112 51	..	17.1	—	6	55.1	7	-27.0	28	23.1	1.55	+0.87	0.68	8	23	..	..			
Lunenburg.....	..	..	..	18.9	—	1	46.0	5-6	-30.0	24	20.0	0.70	—	0.40	3	28	..	1		
Macleod.....	49 44	113 24	3128	20.9	+ 0.6	19	52.0	6-7	-30.0	24	21.1	1.45	+1.01	0.50	6	25	..	..			
Medicine Hat.....	50 1	110 37	2143	16.8	+ 5.0	29	56.0	7	-29.0	25	20.9	1.22	+0.62	0.20	8	23	..	..			
Medicine Hat (Ex Farm).....	..	..	..	15.0	—	1	56.0	7-8	-34.0	25	27.2	0.70	—	0.60	2	29	..	..			
Okotoks.....	50 43	113 50	..	14.7	—	1	55.0	5	-30.0	24	24.2	0.40	—	0.30	2	29	..	..			
Ronolane.....	50 5	111 34	2350	14.8	—	1	54.0	6	-29.0	28	22.4	0.70	—	0.25	4	27	..	..			
Strathmore.....	51 3	113 23	..	11.5	—	2	53.8	6	-27.0	28	20.7	0.80	—	0.30	1	27	..	..			
Suffield.....	50 13	111 9	..	12.2	—	1	51.0	8	-33.0	29	21.9	0.60	—	0.30	3	28	..	3					
Sundial.....	50 6	112 34	..	16.4	—	3	53.5	5	-25.5	28	19.1	—	—	—	..	..	..	..	
Rocky Mountains																							
Banff.....	51 10	115 34	4542	16.0	+ 2.3	18	40.0	5	-25.3	28	11.8	2.54	+1.42	0.45	17	14	..	1					
Brazzau Forest (Coal Spur).....	49 40	114 30	4225	3.6	—	1	47.0	6	-48.0	27	34.4	—	—	—	..	..	..	..	
Athabasca River																							
Athabasca Landing.....	54 43	113 17	1650	1.1	—	11	37.0	5	-40.0	29	22.0	0.53	—	0.23	3	28	..	..			
Jasper.....	..	..	..	13.3	—	1	40.0	6	-30.0	28	16.5	—	—	—	..	..	..	..	
Lanford.....	54 33	114 19	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pembina.....	54 12	114 0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Peace River																							
Beaver Indgo.....	55 20	119 24	..	-1.9	—	8	37.0	6	-46.0	28	21.0	1.10	—	0.50	11	20	..	2					
Dunvegan.....	55 56	118 34	1805	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fort Vermilion.....	68 27	116 3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Fort Vermilion (2).....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Grand Prairie.....	-0.7	—	1	32.0	6	-54.0	24	26.4	0.90	—	0.45	3	28	..	1					
Peace River Crossing.....	56 15	117 15					

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				Mean.	Difference from average.	Yr's observations.	Highest.	Date.	Lowest.	Date.	Mean daily range.	Amount.	Difference from average.						Heaviest fall in month.								
SASKATCHEWAN—																											
Qu'Appelle River																											
Broadview.....	50 23	102 33	1960																								
Brownhill (Gresfell P.O.)...	50 23	102 53	1957	7.6	+ 0.6	23	45.0	5	-33.0	24	17.7	1.70	+1.46	0.66	6	25		3									
Buchanan.....	51 42	102 45																									
Crescent Lake.....	50 59	102 25	1658	4.3	+ 9.0	10	42.7	6	-30.2	26	19.3	1.45	+0.71	0.50	11	20											
Estevan.....	50 59	103 4	1858	12.7	-15.7	13	17.0	7	-35.0	14	17.1	1.10	+0.44	0.80	3	28											
Fort Qu'Appelle.....	50 47	103 47		8.0	—	2	47.9	5	-36.0	24-25	22.8	1.25	—	0.28	14	17											
Hubbard (Drumague).....	51 5	103 24		3.6	—	3	43.0	5	-35.0	23	16.2	1.40	—	0.30	7	24											
Humboldt.....	51 5	103 9		2.6	—	8	37.0	5-6	-40.0	25	17.2	0.35	—	0.25	2	29											
Imperial.....	52 12	105 23		5.4	—	3	44.0	5	-34.0	24	19.7	0.60	—	0.20	4	27											
Indian Head.....	51 22	103 40	1924	7.0	+ 5.8	23	44.0	5	-34.0	24	17.9	1.25	+0.89	0.30	7	24											
Kamsack.....	51 30	101 52																									
Moose Jaw.....	50 21	105 35	1759	11.4	+ 8.1	19	50.0	6	-33.0	24	21.3	1.00	+0.40	0.30	11	20		1									
Moosomin.....	50 0	101 37	1884	6.7	+ 9.1	11	41.0	5	-16.0	23	8.7	—	—	—	—	—											
Muenster (St. Peter's Men.)	52 0	105 0	1870	5.0	+10.8	10	36.0	5	-36.0	24	19.4	0.13	—	0.08	2	29	2	1									
Pilger.....	52 25	105 9		3.6	—	3	38.0	5-6	-38.0	25	20.5	1.03	—	0.24	9	22											
Pense (Gatesgarth).....	50 20	105 0	1879	9.1	+ 2.8	19	49.0	5	-22.0	23	19.1	0.60	+0.27	0.30	3	28		3									
Qu'Appelle.....	50 30	103 47	2115	9.5	+ 7.5	30	50.0	5	-30.0	24	17.4	1.54	+0.86	0.40	13	18											
Regina.....	50 27	104 37	1885	8.4	+11.7	27	45.0	5	-38.0	24	18.7	0.84	+0.46	0.25	12	19											
Strongfield.....	51 21	106 36																									
Yarbo (Fairfield).....	50 39	102 4		2.7	—	7	42.0	5	-37.0	23	19.8	0.45	—	0.40	2	29											
Yellow Grass.....	49 49	104 9		9.2	—	3	40.0	5-6	-33.0	24	20.3	0.80	—	0.30	3	28											
Yorkton.....	51 11	102 29				4																					
S. Saskatchewan River																											
Chaplin.....	50 26	106 39	2202	9.9	+ 6.9	26	4.8	5	-37.0	24	20.8	1.05	+0.33	0.40	6	25		1									
Kindersley.....	51 28	100 9																									
Klintonel (Divide).....	49 38	108 53	3500	15.5	—	5	49.4	7	-24.2	24	13.9	1.22	—	0.70	4	27											
Kelvinhurst (Nashlyn).....	51 46	108 10																									
Larchmount (Glenbrynn).....	49 21	109 29	2500	11.4	—	4	57.5	8	-39.0	24	23.7	1.55	—	0.80	5	26											
Rathminlea.....	51 20	108 57		6.2	—	4	44.8	5	-35.0	25	20.6	0.58	—	0.35	6	25											
Swift Current.....	50 20	107 45	2439	13.4	+ 5.3	28	56.0	6	-36.0	24	21.6	0.61	-0.05	0.36	11	20											
N. Saskatchewan River																											
Aanglia.....	51 55	101 10		3.5	—	2	43.0	4	-39.0	24	20.5	1.30	—	0.60	5	26											
Battleford.....	52 41	108 20	1620	5.8	+ 7.0	24	40.0	5-14	-35.0	29	17.4	0.79	+0.24	0.20	6	25											
Lloydminster.....	53 18	110 0																									
Luseland.....	52 5	109 34		3.6	—	3	47.0	6	-39.0	25	17.7	1.25	—	0.30	7	24		2									
Onion Lake.....	53 52	109 59		1.7	—	6	35.0	7	-40.0	28-29	17.6	—	—	—	—	—											
Prince (Meota).....	51 0	108 20	1700	1.5	—	6	37.0	6	-44.0	24-29	21.4	0.40	—	—	4	27	3	4									
St. Walburg.....	53 36	109 9										0.60	—	0.20	4	27											
Scott (Ex. Farm).....	51 59	109 30		1.9	—	3	38.0	5	-37.3	25-29	20.0	0.65	—	0.25	4	24											
Waseca.....	53 0	109 29		2.2	—	7	35.0	5	-35.0	29	18.2	0.65	—	0.20	7	24											
The Saskatchewan Forks																											
Melfort.....	52 47	104 30		2.9	—	5	35.0	5	-28.0	25-26	18.7	0.60	—	0.20	4	27											
Prince Albert.....	53 10	106 0	1432	4.7	+ 8.0	28	36.0	14	-35.0	25	18.1	0.71	-0.16	0.30	7	24											
Rosthern.....	52 40	106 20	1657	1.5	—	4	35.5	7	-37.8	25	19.5	0.65	—	0.20	6	26		1									
Saskatoon.....	52 15	106 30	1571	4.7	+ 3.2	28	38.0	5	-35.0	25-26	20.8	0.90	+0.41	0.35	6	25											
Lower Saskatchewan River																											
Lost River.....	53 17	104 21		1.9	—	4	35.0	6	-31.0	25-26	13.2	—	—	—	—	—											
MANITOBA—																											
Qu'Appelle and Assiniboine Rivers																											
Boissevain.....	50 25	101 1	1703																								
Brandon.....	49 51	99 57	1176	2.4	+ 4.5	27	38.0	5	-37.6	24	20.8	1.65	+0.82	0.50	8	23											
Carman.....	49 31	98 0	872																								
Cypress River.....	49 33	99 3	1232																								
Hillview.....	49 55	100 33	1400			28																					
Minnedosa.....	50 15	99 50	1699	4.2	+ 4.8	30	37.4	5	-30.5	12	20.1	1.76	+0.88	0.81	8	23		4									
Ninette.....	49 24	99 38	1363	13.7	—	3	45.0	5-6	-18.0	29	20.8	1.01	—	0.60	9	22											
Ninga.....	49 14	99 51	1649	5.4	—	4	41.0	5	-43.0	28	21.3	—	—	—	—	—											
Pierson.....	49 11	101 5	1531																								
Pipestone.....	49 34	100 58	1400																								
Portage la Prairie.....	49 57	98 17		5.0	+ 7.9	24	38.0	6	-26.0	24-25	20.4	1.10	-1.85	0.20	8	23											
Portage la Prairie (2).....	49 56	98 17																									
Russell.....	50 59	101 20		2.0	+ 7.8	22	40.0	5	-38.0	25	17.1	—	—	—	—	—											
St. Alban's (Treesbank).....	49 42	99 33	1180	4.4	+ 6.4	27	40.0	5	-24.5	25	22.3	2.31	+1.89	0.53	17	14	1										
Souris.....	49 37	100 14		18.3	—	2	37.0	16	-33.0	24	21.7	26.0	—	0.60	6	25											
Trasheena.....	49 36	98 40	1212	7.3	+ 5.8	18	39.0	5	-24.0	24-26	21.2	1.89	+1.22	0.50	13	19		3									
Virden.....	49 51	100 55	1444																								
The Red River																											
Almasippi.....	49 14	99 20		5.7	+ 8.6	12	41.0	5	-31.0	24	18.4	2.25	+1.74	1.20	8	23											
Morden.....	49 11	98 6	978	8.9	+ 7.6	10	39.0	6	-22.0	12	15.9	2.09	+1.12	1.10	3	28	2	3									
Oak Bank.....	49 57	96 42	800	6.3	+ 8.1	19	33.0	18-12	-20.0	25	13.4	2.00	+1.09	0.80	6	25											
Stony Mountain.....	50 40	97 14	803	4.8	+ 6.2	32	34.0	19	-35.0	24	21.3	0.65	+0.25	0.20	7	24											
Winnipeg.....	49 53	97 7	760	7.7	+10.3	40	33.6	13	-23.5	24	13.0	0.79	-0.18	0.20	15	16											

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				Mean.	Difference from average.	Yr's observations.	Highest.	Date.	Lowest.	Date.	Mean daily range.	Amount.	Difference from average.						Heaviest fall in month.
MANITOBA—Continued																			
Dauphin Lake and River																			
Berens River.....	52 18	97 23	716	1.6	—	6	24.0	20	-22.0	24	20.2	1.20	—	0.70	2	29	..	..
Dauphin.....	51 8	100 2	957	3.1	—	9	47.0	6	-25.0	26	20.3	1.30	—	0.60	5	25	..	..
Moose Horn Bay (Aitkensville).....	51 15	99 33	810	2.1	—	4	37.8	6	-37.0	26	16.3	2.05	—	0.40	12	19	..	..
Lake Winnipegosis																			
Le Pas.....	52 6	101 15	1112	-2.3	—	4	30.0	5	-32.0	20	15.3	1.40	—	0.70	11	20	..	..
ONTARIO—																			
The Lake Superior Districts																			
Rainy River																			
Fort Frances.....	48 38	93 25	.....	.....	—	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Kenora.....	49 48	9 32	1102	5.9	+ 5.1	15	34.0	19	-30.0	24	15.1	1.30	+0.00	0.50	4	27	..	..
Shoal Lake.....	49 37	95 6	.....	8.2	—	1	34.0	7-19	-35.0	25	18.8	0.39	—	0.17	3	28	..	..
Sioux Lookout.....	.....	.....	.....	0.2	—	1	31.0	19-20	-33.0	24	18.5	1.33	—	0.28	10	21	..	..
Thunder Bay																			
Kakabeka Falls.....	48 29	89 26	912	8.2	—	6	31.0	19	-38.0	25	25.0	1.25	—	0.35	6	25	..	..
Port Arthur.....	48 27	89 12	644	12.7	+ 5.6	33	36.0	7-29	-22.0	13	20.7	0.97	+0.19	0.40	11	20	..	2	
Savanne.....	48 55	90 18	1506	10.9	+10.4	12	32.0	8-20	-34.0	25	10.6	1.30	-0.06	0.80	4	27	..	..
Schreiber.....	48 50	87 15	933	9.4	+ 3.8	12	41.2	19	-33.8	25	27.0	2.73	—	1.20	8	23	1	2	
Algoma																			
Bisco.....	47 40	82 11	1333	6.9	—	1	41.8	29	-42.0	13	20.5	2.09	—	1.06	10	21	..	..
Bruce Mines.....	46 18	83 55	595	16.2	+ 1.8	17	43.0	29	-35.0	13	15.4	2.44	+0.35	0.96	8	23	..	1	
Chapleau.....	47 48	83 28	.....	8.6	—	1	44.5	29	-45.0	13	20.0	0.70	—	0.30	3	28	..	..
Copper Cliff.....	46 30	80 59	.....	13.5	—	8	45.0	8-9	-35.0	13	23.8	1.36	—	0.56	12	19	..	..
Grassett.....	48 29	84 29	.....	.....	—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Porcupine.....	45 40	82 14	.....	1.3	—	3	45.0	30	-38.0	13-14	28.2	1.90	—	0.40	11	20	..	..
Providence Bay.....	48 35	85 16	1252	21.3	—	3	41.0	29	-30.0	13	23.6	2.66	—	0.95	12	19	..	..
Timmins (Sandy Falls).....	48 40	81 30	885	3.0	—	2	46.5	30	-40.0	13-14	28.5	2.64	—	0.80	12	19	..	..
White River.....	48 35	85 16	1248	3.6	+ 2.7	24	37.0	29	-48.0	13	28.9	1.00	-0.73	0.20	9	22	..	..
Nipissing																			
Cochrane.....	49 2	81 0	946	2.9	—	3	45.0	29	-38.0	13	24.4	2.45	—	0.40	10	21	..	..
Haileybury.....	47 29	79 39	687	7.7	+ 1.0	20	45.1	29	-34.4	13	20.0	2.43	+0.40	0.70	18	13	..	..
Iroquois Falls.....	48 45	80 40	850	4.1	—	1	45.5	29	-36.0	13	24.6	1.75	—	0.33	14	17	..	..
Montreal River.....	47 8	79 20	.....	9.9	—	4	51.0	15	-35.0	12	23.4	3.48	—	1.10	14	17	..	..
Upper Ottawa River																			
Rutherford (Lake Talon).....	40 15	74 48	.....	7.1	-0.6	19	47.5	29	-35.5	13	21.3	1.40	-0.96	0.40	9	22	1	..
Stonecliff (Rockcliffe).....	46 9	78 6	857	9.1	+ 2.3	36	47.0	30	-32.0	13	18.6	3.18	+1.19	0.60	20	11	..	..
Upper St. Lawrence and Lower Ottawa Rivers																			
Almonte.....	45 12	76 13	390	10.6	—	2	45.0	29	-33.0	14	15.3	3.27	—	0.80	14	17	..	..
Bloomfield.....	43 59	77 21	260	19.6	-1.6	14	44.0	30	-29.0	13	18.3	3.13	+0.70	0.60	9	22	..	..
Hillier.....	20 9	.....	.....	20.9	—	3	45.0	29	-24.0	14	10.0	2.01	—	0.50	8	23	..	..
Kingston.....	44 13	76 29	285	17.0	-1.3	39	45.1	29	-28.3	12	18.3	2.76	-0.11	0.64	17	14	..	..
Montague.....	44 56	75 57	.....	10.5	—	4	46.1	29	-39.0	14	22.7	2.89	—	0.95	9	22	..	..
Morrisburg.....	44 56	75 12	.....	9.7	—	1	48.3	29	-32.0	14	20.5	2.40	—	0.60	8	23	..	..
North Gower.....	45 8	75 43	.....	7.0	—	12	38.0	21-31	-32.0	7-14	24.3	—	—	—	.....	.....	.....	.....
Ottawa.....	45 26	75 42	294	11.2	-0.9	31	42.0	29-30	-30.0	14	18.1	3.12	+0.13	0.90	15	16	..	..
Renfrew.....	45 28	76 39	418	9.3	-1.3	24	48.5	29	-33.0	14	17.0	3.03	+1.38	0.70	16	15	..	..
Georgian Bay Counties																			
Barrie.....	44 23	79 41	839	19.5	+ 1.5	35	45.0	29	-29.5	13	16.3	4.50	+1.36	0.70	17	14	..	1	
Bentrie.....	45 8	79 20	800	16.5	+ 3.0	37	46.0	29	-33.0	14	20.4	3.42	-0.68	0.90	13	18	..	..
Big Chute (Buskin P.O.).....	44 42	79 38	625	17.8	—	1	50.0	30	-36.0	14	19.5	2.77	—	0.50	10	18	..	..
Coldwater.....	44 38	79 40	600	19.1	+ 1.5	26	51.0	29	-33.0	13-14	18.8	3.34	-0.92	1.03	10	21	..	..
Collingwood.....	44 31	80 2	.....	21.6	+ 1.2	21	52.0	30	-25.0	14	16.6	2.63	—	0.80	11	20	..	..
Gravenhurst.....	44 54	79 20	.....	16.5	+ 1.5	43	47.0	29	-35.0	14	22.7	3.06	-0.28	0.60	13	18	..	..
Huntsville.....	45 19	79 8	.....	16.3	—	7	49.0	29	-6.0	13	18.3	—	—	—	.....	.....	.....	.....
Midland.....	44 44	79 53	750	.....	—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Markdale.....	44 19	82 39	.....	17.6	—	2	49.0	30	-19.0	14	18.3	1.40	—	0.50	4	27	..	1
Meaford.....	44 36	80 36	.....	.....	—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oroville.....	44 37	79 24	775	17.8	+ 0.1	20	43.0	29	-33.0	13	16.3	3.47	+0.92	0.85	10	21	..	..
Owen Sound.....	44 34	80 55	597	.....	—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Perry Sound.....	45 19	80 0	635	17.7	+ 2.5	38	47.0	29	-34.0	13	21.1	2.08	-1.48	0.40	17	14	..	1	
Ronville.....	45 15	78 57	1038	16.1	—	7	46.0	29	-38.0	13	16.8	2.70	—	0.60	8	23	..	..
Sundridge.....	.....	.....	.....	12.4	—	1	44.9	29	-43.0	15	23.8	—	—	—	.....	.....	.....	.....
Lake Huron Counties																			
Biram.....	43 2	81 55	600	27.3	+ 6.2	32	52.4	29	-11.2	14	8.8	2.56	-0.25	0.61	11	20	..	4	
Brucefield.....	43 32	81 37	.....	21.1	+ 3.5	11	52.0	30	-10.0	14	13.4	2.85	-0.74	0.61	16	15	..	1
Lucknow.....	43 66	81 30	908	22.8	+ 1.4	27	49.8	29	-14.1	13	14.1	3.30	-1.03	1.00	15	16	..	5	
North Bruce.....	44 23	81 25	.....	25.3	+ 2.9	25	50.0	29	-16.0	13	—	2.44	-0.78	0.50	16	15	..	..
Ridgcrest (Goderich).....	43 45	81 41	.....	24.6	+ 2.8	23	51.5	30	-12.0	13	12.8	3.76	+0.69	0.32	13	18	..	..
Southampton.....	44 30	81 21	656	24.8	+ 2.9	37	51.8	29	-10.0	13	14.2	3.17	-0.80	0.50	22	9	..	..
Lakes St. Clair & Erie, Niagara Peninsula																			
Chatham.....	42 23	82 12	595	28.7	+ 5.2	25	56.0	29	-1.0	14	9.7	1.47	—	0.40	6	25	..	..
Cottam.....	42 7	82 45	806	26.6	+ 0.5	26	60.0	29-30	-5.0	13	20.0	3.00	+0.67	0.70	6	25	..	5	
Dutton.....	42 40	81 32	.....	27.6	—	1	55.0	29	-10.0	14	13.8	2.05	—	1.20	5	26	..	..
Grimshy.....	43 13	78 36	.....	26.9	—	5	58.0	29	-13.0	13	14.2	3.63	—	1.20	11	20	..	..
Pelee Island.....	41 50	82 35	585	.....	—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Port Burwell.....	42 39	80 55	692	26.2	—	10	45.0	29	-16.0	14	8.9	2.44	-0.49	1.20	10	21	..	1	
Port Dover.....	42 27	80 13	635	22.8	+ 0.6	39	52.5	29											

TEMPERATURE AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, JAN., 1914.

* Stations not furnished with Registering Thermometers.

STATION	Latitude N.	Longitude W.	Elevation above sea level in feet.	TEMPERATURE							PRECIPITATION								
				Mean.	Difference from average.	Yr's Observations	Highest.	Date.	Lowest.	Date.	Mean daily range.	Amount.	Difference from Average.	Heaviest fall in month.	Days with 01 or more.	No. of fair days.	No. of auroras.	No. of thunderstorms.	No. of fogs.
ONTARIO—Cont. nued—																			
West-Central Counties																			
Alton.....	43 51	80 5	1250	19.2	+0.8	28	46.0	30	-26.0	13	16.0	2.65	+0.38	0.43	10	21	..	..	6
Brantford.....	43 10	80 21	750	22.9	+2.7	33	55.0	29	-22.0	13	15.9	3.27	+0.85	1.45	8	23	..	..	..
Elora.....	43 41	80 24	1274	20.7	+1.9	16	48.0	30	-25.0	13-14	15.0	2.65	-0.37	0.75	8	23	..	..	..
Guelph.....	43 33	80 16	1050	24.0	+5.9	26	51.0	29	-23.0	13	16.3	1.86	-0.11	0.50	12	19	..	..	..
Listowel.....	43 44	80 58	1262	26.2	+4.3	31	54.0	29	-18.0	14	14.8	4.27	-0.55	0.80	17	14	..	..	1
London.....	42 59	81 13	805	25.2	+3.2	25	51.0	29	-20.0	14	14.7	3.36	+0.53	0.62	15	16	..	..	..
Paris.....	43 12	80 25	840	25.2	+3.2	25	51.0	29	-20.0	14	14.7	3.36	+0.53	0.62	15	16	..	..	..
Shelburne.....	44 5	80 47	1191	24.0	+4.4	39	52.0	29	-20.0	13	14.0	2.90	-0.57	0.50	11	20	..	..	3
Stratford.....	43 23	81 0	980	21.3	+1.8	18	42.0	29	-25.0	13	13.5	3.30	+1.00	0.60	19	12	..	..	5
Woodstock.....	43 8	80 47	980	14.4	—	6	44.5	29	-30.0	12-13	14.7	3.50	+1.40	0.20	8	23	..	..	1
Lake Ontario Counties																			
Agincourt.....	43 47	79 16	590	21.3	+1.8	18	42.0	29	-25.0	13	13.5	3.30	+1.00	0.60	19	12	..	..	5
Aurora.....	43 57	79 24	886	14.4	—	6	44.5	29	-30.0	12-13	14.7	3.50	+1.40	0.20	8	23	..	..	1
Hamilton.....	43 16	79 54	803	21.1	—	5	48.0	30	-27.0	13	15.5	—	—	—	—	—	..	..	..
Oshawa.....	43 53	78 52	331	25.6	+2.7	74	54.3	29	-22.0	13	15.5	3.44	+0.63	0.56	17	14	..	..	1
Toronto.....	43 40	79 24	350	25.9	—	9	50.0	29	-22.0	13	15.9	—	—	—	—	—	..	..	..
Toronto Is. (Lakeside Home)	44 5	79 8	886	18.4	—	10	49.0	29	-30.5	13	14.0	3.10	+0.44	0.40	11	20	..	..	..
Uxbridge.....	44 5	79 8	886	20.7	—	2	50.0	29	-27.0	13	16.6	2.58	—	0.40	10	21	..	..	1
Wexford.....	43 44	79 17	555	13.3	+1.6	25	50.0	29	-35.0	12-13	21.1	—	—	—	—	—	..	..	..
East-Central Counties																			
Bancroft.....	45 1	77 50	1050	15.1	+1.2	28	49.0	29	-38.0	13	23.6	—	—	—	—	—	..	..	..
Haliburton.....	45 1	78 28	1050	13.1	+1.0	16	46.0	29	-39.0	13	21.7	2.10	+0.03	0.60	9	22	..	..	..
Kinmount.....	44 45	78 38	920	18.5	+3.1	27	54.0	29	-34.0	13	20.0	3.65	+1.21	1.00	10	21	..	..	..
Lakefield.....	44 25	78 15	850	18.5	+3.1	27	54.0	29	-34.0	13	20.0	3.65	+1.21	1.00	10	21	..	..	..
Lindsay.....	44 20	78 45	872	17.8	+2.3	33	47.6	29	-31.3	13	20.3	2.68	-1.35	0.45	11	10	..	..	..
Madoc.....	44 30	77 29	575	13.6	+1.0	10	45.0	29	-31.0	14	17.1	3.45	-0.05	0.58	15	16	..	..	..
Norwood.....	44 24	77 57	722	15.4	+1.2	10	57.0	27	-31.5	13	23.8	0.95	-2.35	0.50	5	29	..	..	..
Paterboro.....	44 17	78 19	722	17.4	+2.0	42	48.0	29-30	-32.0	13	20.6	3.64	-0.36	0.80	13	18	..	..	..
Ursa.....	44 54	78 18	722	17.4	+2.0	42	48.0	29-30	-32.0	13	20.6	3.64	-0.36	0.80	13	18	..	..	..
QUEBEC—																			
Middle St. Lawrence																			
Bark Lake Depot.....	46 30	75 20	557	6.3	—	2	48.0	30	-36.0	13	20.9	3.02	—	0.55	12	19	..	..	..
Beauceville.....	46 11	70 43	557	1.5	—	1	45.0	31	-32.0	1	31.4	2.28	—	0.60	9	22	..	..	..
Brome.....	45 10	72 36	678	11.7	-1.0	33	43.0	29	-32.0	13	21.9	1.60	-0.53	1.00	4	27	..	..	..
Cap Rouge.....	46 46	71 18	132	6.6	—	3	43.0	30	-25.0	14	18.4	3.70	—	0.60	11	20	..	..	..
Cedar Rapids.....	45 21	74 5	132	10.7	—	2	48.0	30	-28.0	13	19.7	1.30	—	0.40	5	26	..	..	..
D'Iseroli.....	45 55	71 21	896	4.3	—	4	39.0	25	-31.0	1	27.2	3.05	—	1.20	6	25	..	..	..
Drummondville.....	44 30	72 30	900	9.9	—	1	45.0	30	-32.0	14	26.0	5.57	—	1.20	16	15	..	..	..
Huberdeau.....	45 59	74 41	900	9.9	—	1	45.0	30	-32.0	13-14	21.2	2.80	—	0.70	12	19	..	..	..
Huntingdon.....	45 5	74 10	1314	11.4	—	1	50.0	30	-28.0	13	21.9	3.08	—	0.60	13	18	..	..	..
Lake Megantic.....	45 35	70 53	1314	11.4	—	1	50.0	30	-28.0	13	21.9	3.08	—	0.60	13	18	..	..	..
MacDonald College (Sta. Anne de Bellevue).....	45 27	73 59	187	9.1	—	8	40.0	23-24	-27.2	12-13	20.9	—	—	—	—	—	..	..	..
Montreal.....	45 30	73 35	187	12.2	-1.0	39	43.6	30	-27.1	13	15.8	4.23	+0.48	0.80	17	14	..	..	1
Nicolet.....	46 15	72 36	296	7.4	—	1	28.0	29	-34.1	14	22.7	2.92	—	0.60	14	17	..	..	..
Norwich.....	46 27	75 0	296	10.1	+0.0	39	43.0	30	-24.6	14	16.4	3.69	+0.49	0.66	17	14	..	..	3
Quebec.....	46 48	71 13	296	4.7	—	1	42.0	30	-33.0	14	22.8	4.80	—	1.50	8	23	..	..	..
St. Lin.....	45 43	73 47	296	2.2	—	2	48.0	30	-31.0	13	13.2	—	—	—	—	—	..	..	..
Shawbridge.....	45 54	74 3	620	2.4	-2.0	11	35.0	30	-33.0	14	20.2	5.02	—	0.90	12	19	..	..	2
Shawinigan Falls.....	46 34	72 43	620	10.1	-2.5	11	44.9	29	-28.3	14	21.7	2.77	-0.44	1.46	17	14	..	..	6
Sherbrooke.....	45 32	72 5	620	10.1	-2.5	11	44.9	29	-28.3	14	21.7	2.77	-0.44	1.46	17	14	..	..	..
Lower St. Lawrence & Gulf																			
*Anticosti, E. Pt.....	49 6	61 42	30	—	—	—	—	—	—	—	—	—	—	—	—	—	..	..	..
*Anticosti, S.W. Pt.....	49 24	63 33	30	—	—	—	—	—	—	—	—	—	—	—	—	—	..	..	..
*Anticosti, W. Pt.....	49 52	64 52	30	—	—	—	—	—	—	—	—	—	—	—	—	—	..	..	..
*Bicquet.....	48 25	68 53	30	9.6	—	33	43.0	30	-13.0	14	—	1.70	—	0.50	5	26	..	..	1
*Cape Chatte.....	49 6	66 45	30	12.7	+1.2	25	45.0	30	-5.0	18	—	0.70	—	0.40	4	27	..	..	..
*Cape Magdalen.....	49 16	65 20	93	10.6	-0.1	31	45.0	30	-4.0	2	—	1.62	-0.62	0.60	9	22	..	..	..
*Causapscal.....	48 21	67 12	450	0.5	—	1	43.0	31	-26.0	26	21.0	1.48	—	0.60	5	23	..	..	..
*Futher Point.....	48 31	68 19	20	7.2	-1.6	36	44.0	30	-20.0	21	17.4	1.01	-1.54	0.49	7	24	..	..	..
Sta Anne de la Pocatiere.....	47 22	70 2	65	6.4	—	3	38.4	28	-30.8	13	15.3	2.15	—	0.70	7	24	..	..	..
Tadoussac.....	48 10	69 47	2	6.2	—	1	51.5	29	-26.0	13	18.1	1.70	—	0.60	7	24	..	..	..
Lake St. John																			
Chicoutimi.....	48 25	71 5	150	—	—	36	—	—	—	—	—	0.93	-0.57	0.27	12	19	..	..	..
Chicoutimi (2).....	48 25	71 5	150	2.2	—	3	50.0	30	-31.0	26	13.2	1.15	—	0.80	4	27	..	..	..
Lake Edward.....	47 39	72 15	1333	0.0	—	5	40.0	30	-38.0	11	19.4	1.30	—	0.40	9	22	..	..	..
La Tuque.....	47 27	72 48	520	4.7	—	3	46.0	30	-30.6	14	24.8	1.54	—	0.50	9	22	..	..	..
Mistassini.....	48 54	72 15	360	-0.9	—	3	46.0	30	-28.0	1-26	22.7	0.55	—	0.15	8	23	..	..	..
Roberval.....	48 31	72 13	352	2.1	—	8	46.0	30	-25.0	13	19.7	—	—	—	—	—	..	..	..
The Northwestern Districts																			
Abitibi.....	48 33	79 22	—	2.4	+1.0	18	44.0	29	-34.0	13-25	22.2	1.30	-0.68	0.30	10	21	..	..	..
Amos.....	48 36	78 7	—	1.3	—	1	44.0	29	-42.5	12	23.1	3.37	—	0.80	13	18	..	..	..
Quize Dam.....	47 34	79 16	—	11.5	—	1	44.0	29	-32.0	13	18.5	1.70	—	0.36	10	21	..	..	..
Temiskaming.....	46 44	79 7	—	12.9	—	1	46.0	29	-29.0	13	21.2	2.25	—	0.59	12	19	..	..	..
Ville Marie.....	47 55	79 25	—	10.1	—	1	44.0	29	-38.0	13	19.4	1.22	—	0.40	6	25	..	..	..
White Shore Lake.....	48 12	75 43	—	-1.5	—	2	39.5	30	-46.0	14	22.5	2.70	—	1.50	2	29	..	..	..
The North Shore																			
Clarke City.....	50 10	66 25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	..	..	..
New Brunswick—																			
Chatham.....	47 3	65 29	21	10.5	-1.0	39	43.5	30	-21.0	23	21.5	3.66	+0.03	1.36	15	16	..	..	..
Dalhousie.....	48 4	66 22	39	8.9	+1.2	32	43.0	30	-13.0	59	14.6	0.60	-1.42	0.60	6	25	..	..	..
Edmundston.....	45 57	66 36	164	10.9	-1.3	42	45.0	30	-24										

TEMPERATURE AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, JAN., 1914.

*Stations not furnished with Registering Thermometers

STATION	Latitude	Longitude	Elevation above sea level, in feet	TEMPERATURE							PRECIPITATION			Days with .01 or more	No. of fair days	No. of Auroras	No. of thunderstorms	No. of fogs
				Mean	Difference from average.	Yr's Observations	Highest	Date	Lowest	Date	Mean daily range	Amount	Difference from average						Heaviest fall in month
NOVA SCOTIA—																		
Advocate.....	45 19	64 46	20.1	—	2	49.0	25	—9.0	20	15.3	—	—	—	—	—	—	—
Antigonish.....	45 38	61 59	50	20.7	—	3	53.0	31	—11.0	24	21.1	—	—	—	—	—	—	
Halifax.....	44 39	63 36	88	22.2	—1.9	39	51.4	30	—7.0	23	18.2	2.86	—2.99	1.05	14	17	1	
Kentville.....	45 3	61 36	40	16.8	—	3	49.0	30	—12.0	21	14.7	2.47	—	0.55	10	21	1	
Kentville (2).....	45 3	61 36	40	19.7	—	1	53.0	30	—5.0	21	13.5	2.81	—	0.75	11	20	1	
Liverpool.....	44 0	64 40	56	24.6	—	1	54.0	31	—2.5	23	19.7	2.98	—	1.20	4	27	1	
Nappan.....	45 46	64 34	.....	15.9	—	1	46.0	25-30	—19.0	21	16.1	1.47	—	1.07	6	25	1
New Germany.....	44 30	64 42	.....	23.9	—	2	54.0	30	—15.0	23	13.8	2.93	—	1.23	5	26	1
Parrsboro'.....	45 23	64 19	40	17.2	+1.9	16	40.0	25-29	—16.0	23	21.4	1.00	—	0.50	3	28	1	
Port Hastings.....	45 39	61 22	45	—	—	22	—	—	—	—	—	—	—	—	—	—	—	
Sable Island, E. Pt.....	43 58	59 46	23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Sable Island (Main Station)	43 57	60 6	25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Sutherland's River.....	46 10	60 10	35	19.2	—	1	52.0	30-31	—12.0	21	21.4	—	—	—	—	—	—	
Sydney.....	46 10	60 10	35	22.7	+0.6	40	49.5	25	0.5	24	13.8	2.34	—2.91	0.70	9	22	1	
Truro.....	45 22	63 18	77	17.6	—1.7	39	49.5	25	—24.0	23	19.5	4.39	+2.52	1.63	13	18	1	
Truro (2).....	45 25	63 15	.....	17.0	—	3	49.5	25	—17.5	23	19.5	3.50	—	0.80	8	23	1
*Whitehead.....	45 15	61 8	20	22.4	—2.1	31	41.0	25	2.0	15	12.0	2.59	—1.17	9.70	6	25	1	
Windsor.....	44 59	64 6	90	20.8	—1.4	11	52.0	31	—7.5	21	15.8	2.97	+0.10	1.00	11	20	1	
Wolfville.....	45 7	64 20	.....	20.9	—0.7	13	53.0	30	—1.8	14-20	17.7	2.30	—1.62	0.70	8	23	1
Yarmouth.....	43 50	66 2	65	25.8	—0.8	35	41.9	25	1.4	14	14.8	3.07	—2.09	0.76	17	14	2	
P. E. ISLAND—																		
Charlottetown.....	46 14	63 10	38	16.8	—1.9	38	42.0	25-30	—6.0	23	15.7	3.29	—0.12	0.85	10	21	1	
Charlottetown (Exp. Farm)	46 14	63 7	75	16.3	—	3	45.0	25	—6.0	20-23	17.4	3.93	—	1.10	12	19	1	
Hamilton.....	46 25	63 48	.....	—	—	17	—	—	—	—	—	—	—	—	—	—	—
Summerside.....	46 18	63 51	.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
NEWFOUNDLAND—																		
*Amour Point.....	51 28	56 51	.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Burin.....	47 0	55 10	27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
*Cape Norman.....	51 38	55 52	.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fogo.....	49 43	54 17	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
*Point Riche.....	50 42	57 25	35	13.5	+1.4	31	40.0	25	—15.6	29	—	1.55	—1.11	0.50	8	23	1	
Port aux Basques.....	47 35	50 10	27	21.0	—	5	41.5	30	6.0	20	11.0	2.35	—	0.40	21	10	1	
St. George's.....	48 28	58 25	.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
St. John's.....	47 34	52 42	125	22.6	—1.6	41	47.0	25	5.0	23	10.8	5.45	—0.34	1.20	16	15	1	
BERMUDA—																		
Prospect.....	32 17	64 46	151	62.4	—0.1	23	71.4	30	47.2	16	10.4	6.18	+1.28	1.90	20	11	2	

PRECIPITATION AT STATIONS REPORTING RAIN, SNOW, WEATHER, &c., DURING JAN., 1914.

STATIONS.	RAINFALL.					SNOWFALL.				REMARKS
	Amount in inches.	No. of Days .01 or over.	No. of Fair Days.	Heaviest Fall in Month.	Date.	Amount in inches.	No. of Days.	Heaviest Fall in Month.	Date.	
BRITISH COLUMBIA—										
Alkali Lake.....	0.05	1	24	0.05	5	14.6	6	4.5	16	
Annie (Canoe Point)	1.96	12	6	0.35	7	15.5	9	4.0	26	
Beaver Lake (Royal Oak) ..	8.87	21	10	1.20	6	4.0	1	4.0	24	
Coquitlam.....	12.46	18	12	2.23	4	7.5	3	4.5	28	
Denman's Island.....	14.38	19	12	1.99	4	15.0	1	15.0	25	
Ferguson.....	1.73	3	12	0.76	6	83.0	16	14.0	26	
Goldstream Lake.....	15.18	24	2	3.39	4	23.5	7	6.0	24	
Hornby Island.....	12.63	18	11	1.93	28	15.1	2	13.1	15	
Hydraulic.....										
Invermere.....	0.66	2	20	0.43	7	13.4	8	2.5	26-30	
Jordan River.....	17.24	30	0	2.05	4	2.8	4	1.0	26	
Jordan River (Bear Creek) ..	26.79	26	2	4.78	5	35.0	15	7.1	27	
Little Qualicum (Fr. Cr. V.L.)	11.46	16	13	2.25	4	5.0	2	4.0	24	
Lumby.....	0.80	4	16	0.45	6	16.5	11	4.0	22	
Nans Harbour.....	2.15	6	20	9.64	12	30.3	5	19.3	29	
Rock Creek.....	0.00					18.3	9	4.0	25	
Sooke Lake.....	16.79	23	6	4.25	4	7.0	3	5.0	24	
Stamps Falls (Alberni).....	16.69	25	6	2.41	4	12.5	3	7.0	25	
Wycliffe.....	0.00					25.0	8	6.0	14	
ALBERTA—										
Bardo.....	0.00					2.5	3	1.0	7-17	
Beaver Mines.....	2.01	1	27	2.01	6	14.0	3	6.0	22-24	
Bismark.....	R	1	25	R	5	7.5	6	2.8	18	
Bittern Lake.....	0.00					8.0	8	2.8	19	
Brooks.....	0.03					9.0	8	3.0	19	
Bruegerheim.....										
Caldwell.....	0.00					14.0	8	3.0	29	
Clareholme.....	0.00					7.5	3	3.0	22	
Clarinda.....	0.00					4.5	2	3.5	22	
Coleman.....	0.68	4	17	0.28	7	23.5	10	7.0	26	
Conjuring Creek.....	0.00					7.5	6	3.5	18	
Cree Bank Ranch (Cowley) ..	0.08	2	19	0.07	5	21.0	10	7.0	22	
Dorelee (Bashaw).....	0.10	1	27	0.10	5	10.5	3	4.5	19	
Dunstable (Five Lakes).....	R	1	21	R	5	5.3	10	1.7	26	
Grassy Lake.....	0.00					6.0	4	2.0	26	
Jumping Pound.....	0.00					9.8	4	3.5	8	
La Pearl.....										
Lethbridge.....	0.00					12.2	8	4.0	22	
Lincham.....	0.00					13.8	3	7.0	1	
Lyndon.....	0.00					12.0	4	4.3	28	
Macleod.....	0.00					12.0	6	4.0	22	
Mayercroft.....	0.26	2	1	0.23	4	12.0	8	3.1	26	
Mountain View.....	0.00					9.0	4	6.0	21	
Nantua.....	0.00					6.5	4	3.0	25	
Nateby.....	0.00					5.1	5	1.4	8	
Pekisko.....	0.00					15.5	6	9.0	1	
Ponoka.....	0.06	1	25	0.06	5	16.0	5	8.0	7	
Roycroft Ranch (Manaville) ..	0.00					1.3	2	0.8	26	
Seven Persons.....	0.00					8.5	4	3.3	1	
Waterton Mills.....	0.79	4	20	0.45	5	31.5	7	15.5	22	
SASKATCHEWAN—										
Gull Lake.....	0.00					5.0	4	3.0	18-22	
Gull Lake (Fks. Swift Cur.) ..	0.00					14.3	6	4.5	26	
Wapashoa.....										
MANITOBA—										
Cartwright.....	0.16	2	25	0.08	1-15	23.3	6	7.0	28	
Deloraine.....	0.00					15.0	4	6.0	19	
Rapid City.....	0.00					14.9	8	3.2	28	
ONTARIO—										
Bow Park Farm (Brantford) ..	0.93	6	15	0.41	23	16.1	11	4.3	3	
Deer Park.....	0.99	5	18	0.41	24	19.5	11	4.8	21	
Dutton.....	0.25	1	26	0.25	23	18.0	4	12.0	3	
Emsdale.....	0.10	1	13	0.10	30	28.0	12	9.0	12	
Fort Frances.....										
Georgetown.....	0.50	4	18	0.37	24	18.6	11	3.5	3	
Grand Valley.....	0.41	2	17	0.33	24	20.0	12	3.0	13-20	
Grantham.....	1.00	3	22	0.50	27	9.0	6	4.0	4	
MacCue.....	0.47	2	25	0.25	28	14.0	4	6.0	20	
Niagara Falls.....	1.18	3	24	0.43	9	17.0	5	5.5	1	
Nipigon.....	0.00					14.3	10	6.0	27	
Point Clark.....										
Princeton.....										
Rock Chnpel (Grimsby)	1.49	6	13	0.29	25	21.0	10	9.0	4	
Sydenham.....										
Watford.....	0.67	2	29	0.52	24		16	5.0	10	
Wawaiton Falls.....	0.94	2	19	0.80	29	17.0	3	13.0	4	
Westminster.....	0.53	1	27	0.53	24	18.0	7	5.5	21	
Westport.....	0.25	1	23	0.25	24	21.6	8	7.0	22	
Wiarton.....	0.82	3	20	0.40	27	32.0				

PRECIPITATION AT STATIONS REPORTING RAIN, SNOW, WEATHER, &c., DURING JAN., 1914.

STATIONS	RAINFALL.					SNOWFALL.				REMARKS
	Amount in inches.	No. of Dnys .01 or over.	No. of Fnir Days.	Heaviest Fall in Month	Date	Amount in inches	No. of Days.	Heaviest Fall in Month	Date	
QUEBEC—										
Kipawa Dam.....	0.06	2	18	0.04	29	21.4	12	7.2	31	
Lucerna.....	0.00					27.5	9	8.0	21	
Perkins Mills.....	0.00					29.5	9	8.0	21	
Quinze Dam.....										
Timiskaming.....										
NEW BRUNAWICK—										
Point Escuminac	0.11	2	24	0.09	25	14.4	7	4.5	11	
NOVA SCOTIA—										
Milton.....	1.70	3	26	0.54	24	8.3	2	5.3	21	
South Alton.....	1.21	5	18	0.65	25	38.0	8	12.0	1	
White Rock.....	1.65	1	27	1.65	26	19.0	3	8.0	13-21	

**PRESSURE, HUMIDITY, CLOUDINESS AND WIND AT STATIONS OF THE FIRST CLASS DURING THE
MONTH OF JAN., 1914.**

a Barometer not reduced to sea level

STATION	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE.				Mean relative humidity	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM										Total number of observations.	VELOCITY OF WIND		
				Mean reduced.	Highest.	Lowest.	Range.				N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Mean miles per hour.		Maximum velocity.	Date and direction from.	
BRITISH COLUMBIA—																								
Atlin.....	50 35	133 38	2210	29.90	30.60	29.27	1.33	—	7	6	5	7	0	0	0	0	0	7	43	62	2.9			
Barkerville.....	53 2	121 35	4180	29.66	30.32	28.80	1.52	—	6	7	1	0	0	0	0	0	1	0	54	62				
Kamloops.....	50 42	120 29	1245	29.72	30.18	28.91	1.57	81	8	15	1	1	18	3	9	3	3	1	0	54	62	3.0	21	27,SW
α Nanaimo.....	49 10	123 37	125	29.58	30.25	28.53	1.72	91	8	15	0	1	0	18	9	5	6	2	21	62				
Prince Rupert.....	54 18	130 18	170	29.52	30.02	28.80	1.22	79	6	15	2	2	17	6	0	0	2	0	33	62				
Triangle Island.....	50 52	129 5	680																					
α Tranquille.....	50 41	120 29		28.46	29.01	27.43	1.57	90	8	7	2	0	12	2	1	0	10	0	34	62				
Vancouver.....	49 17	123 5	136	29.72	30.41	28.70	1.70	84	8	17	0	8	29	10	6	1	5	1	2	62				
Victoria.....	48 24	123 19	85	29.69	30.39	28.73	1.66	87	8	11	9	2	20	9	4	2	10	0	6	62	9.5	36	26W	
YUKON—																								
Dawson.....	64 4	139 20	1200																					
ALBERTA—																								
Banff.....	51 10	115 34	4542	29.82	30.34	29.15	1.19	77	6	4	0	4	1	2	1	19	8	6	21	62				
Calgary.....	51 2	114 2	3389	29.81	30.35	29.38	0.97	88	4	12	6	6	4	2	3	2	3	18	18	62				
Edmonton.....	53 33	113 30	2158	29.85	30.42	29.48	0.94	85	5	4	7	5	8	5	9	13	2	11	2	62	5.0	17	26E	
Medicine Hat.....	50 1	110 37	2161	29.83	30.51	29.25	1.26	82	5	4	4	2	0	1	2	19	13	11	10	62	3.0	20	6, SW	
SASKATCHEWAN—																								
Battleford.....	52 41	108 20	1620	29.85	30.64	29.38	1.26	—	4	2	0	0	1	13	0	1	4	10	33	62				
Moosa Jaw.....	50 21	105 35	1759	29.92	30.38	29.38	1.00	106	5	7	13	4	15	6	0	9	6	11	29	93				
Prince Albert.....	53 10	106 0	1432	29.87	30.5	29.43	1.16	97	6	9	5	3	8	2	2	2	2	9	29	62	3.1	15	10NW	
Qu'Appelle.....	50 30	103 47	2115	29.88	30.62	29.28	1.34	83	6	10	3	2	5	8	11	5	4	23	1	62	10.2	33	28NW	
Swift Current.....	50 20	107 45	2439	29.83	30.44	29.26	1.18	88	6	8	3	2	1	5	4	19	16	8	4	62	10.9			
MANITOBA—																								
Minnedosa.....	50 15	99 50	1699	29.93	30.62	29.31	1.28	96	5	7	0	5	7	6	1	1	11	17	14					
α St. Albans (Treesbank).....	49 42	99 33	1180	28.63	29.68	28.12	1.56	—												62				
Le Paa.....	53 49	101 15	860	29.98	30.61	29.47	1.14	100	6	15	13	6	10	4	4	8	13	5	0	62	7.5			
Winnipeg.....	49 53	97 7	760	29.95	30.60	29.44	1.16	96	6	6	9	3	3	27	10	3	8	27	3	93	11.9	35	5S,SE	
ONTARIO—																								
Cochran.....	49 2	81 0	946	30.05	30.64	29.44	1.20	—	5	8	11	6	1	8	14	2	6	11	3	62	7.4	31	29W	
Guelph.....	43 33	80 16	050								3	14	2	17	0	21	9	25	2	93	11.8			
Haileybury.....	47 20	79 39	687	30.01	30.62	29.47	1.15	62	8	18	12	5	1	13	6	5	3	10	7	62				
Kingston.....	44 13	76 29	285	29.97	30.68	29.20	1.48	83	7	15	2	29	1	9	1	3	4	12	1	62	9.9			
London.....	42 59	81 13	808	29.82	30.48	28.81	1.67	89	8	20	0	17	3	37	0	6	0	30	0	93				
α Lindsay.....	41 20	78 45	876	28.96	29.50	28.31	1.19	—	7	14	13	14	12	10	2	11	4	12	8	93				
Ottawa.....	45 26	75 42	294	29.97	30.62	29.22	1.40	96	6	13	10	12	19	0	1	3	6	11	0	62				
Parry Sound.....	45 19	80 0	635	29.92	30.57	29.27	1.30	87	8	10	8	12	1	18	0	8	1	11	2	62	9.4	28	29 SW	
Port Arthur.....	48 27	89 12	644	29.93	30.58	29.42	1.16	85	7	12	18	10	4	0	4	3	21	16	17	93	7.8	33	29, SW	
Port Stan. y.....	42 40	81 13	592	29.94	30.60	29.27	1.33	87	9	23	0	4	7	8	1	13	13	12	4	62				
Southampton.....	41 30	81 21	656	29.92	30.50	29.23	1.33	96	10	26	14	10	4	10	15	6	2	1	0	62				
Stonecliff.....	46 9	78 6	557	29.98	30.59	29.27	1.32	—	4	1	2	1	21	1	0	0	16	0	21	62	7.9	16	12, 3NW	
Toronto.....	43 40	79 24	350	29.94	30.62	29.24	1.38	87	8	18	19	2	4	0	8	11	10	8	0	62	14.8	49	31E	
White River.....	48 35	85 16	1252	29.90	30.55	29.38	1.17	—	7	16	5	10	10	3	7	2	4	8	13	62	7.7	28	29NW	
Woodstock.....	43 8	80 47	980					—	—	—	6	7	5	23	4	17	12	19	0	93	11.5	30	31SW, NW	
QUEBEC—																								
Anticosti S.W. Pt.....	49 24	63 35	30					65	5	4	12	3	9	0	16	1	12	0	9	62	11.7			
Father Point.....	48 31	68 19	20	29.95	30.60	29.34	1.26	69	6	11	5	35	9	2	5	9	16	12	0	93	11.7	43	30W	
Montreal.....	45 30	73 35	187	29.96	30.56	29.22	1.34	69	6	11	5	35	9	2	5	9	16	12	0	93	15.9	41	30NW	
Quebec.....	46 48	71 13	294	29.96	30.57	29.28	1.29	76	7	11	0	39	3	0	0	21	20	7	3	93	15.7	57	31 NE	
Sherbrooke.....	45 32	72 5	620	29.97	30.60	29.23	1.37	80	6	10	4	1	10	18	10	10	21	17	2	93				
NEW BRUNSWICK—																								
Chatham.....	47 3	65 29	21	29.92	30.77	29.01	1.76	76	5	7	2	6	9	1	1	6	22	15	2	62				
Fredericton.....	45 57	66 36	164	29.94	30.74	29.06	1.68	85	5	11	8	16	3	4	4	5	11	27	12	93	8.1	38	30 SW	
St. John.....	45 17	66 4	70	29.85	30.71	29.00	1.71	76	5	7	22	17	6	4	4	6	2	30	2	93	15.1	41	25NW	
NOVA SCOTIA—																								
Halifax.....	44 39	63 36	88	29.83	30.68	28.94	1.74	88	7	10	3	22	3	8	0	7	5	14	0	62	15.2	41	25SW	
Sable Island (MStation).....	43 57	60 6	25																					
Sydney.....	46 10	60 10	35	29.78	30.66	28.89	1.77	85	8	18	4	21	6	3	9	9	8	29	4	93	23.0	60	18 E	
Truro.....	45 22	63 18	77	29.86	30.72	28.93	1.79	—	7	11	18	18	10	2	10	3	10	20	2	93				
Truro (2).....	45 25	63 15		29.83	30.88	29.04	1.84	—	—	—	14	5	12	4	4	5	3	15	0	62				
Wolfville.....	45 7	64 20		29.86	30.71	28.98	1.73	90	6	11	5	10	7	4	3	9	7	13	4	62	10.8	26	18N	
Yarmouth.....	43 50	66 2	65	29.87	30.68	29.06	1.62	79	7	10	8	16	6	6	3	6	1	16	4	62	15.7	44	25SW	
P. E. ISLAND																								
Charlottetown.....	46 14	63 10	38	29.85	30.73	28.97	1.76	88	7	13	2	19	2	1	5	7	5	20	1	62	10.4	30	30 SW	
NEWFOUNDLAND																								
Burin.....	47 0	55 10	27																					
Fogo.....	49 43	54 17	30																					
Port aux Basques.....	47 35	59 10	27	29.72	30.66	28.90	1.76	—	8	21	25	5	10	0	5	0	5	8	4	62				
St. George's.....	48 27	58 31	21																					
St. John's.....	47 34	52 42	125	29.52	30.51	25.22	2.32	70	8	16	4	12	1	6	0	9	1	26	3	62				
BERMUDA																								
Prospect.....	32 17	64 46	151	30.02	30.49	29.43	1.06	80	6	1	5	4	3	2	12	23	11	33	0	93				

FREQUENCY OF THE WIND FROM THE EIGHT CARDINAL POINTS AT STATIONS OF
THE SECOND CLASS, DURING THE MONTH OF JANUARY, 1914

STATION	DIRECTION OF WIND FROM									Total num- ber of Obs- ervations
	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	
ALBERTA—										
Athabasca Landing.....	1	7	5	1	4	2	5	6	0	31
Beaver Lodge.....	10	2	0	6	0	0	2	42	0	62
Didsbury.....	0	3	0	2	6	3	11	6	0	31
Halkirk (Emsburg).....	4	2	4	10	15	7	4	16	0	62
Hillsdown.....	1	5	0	7	4	10	0	11	24	62
Loveland.....	2	2	5	13	0	13	12	15	0	62
Macleod.....	2	9	9	2	0	3	32	3	2	62
Ranfurly (Waitefield).....	9	4	13	15	7	5	8	22	10	93
Sion.....	4	1	8	28	4	16	11	18	0	90
SASKATCHEWAN—										
Brownhill (Grenfell).....	3	6	1	9	11	14	1	17	0	62
Chaplin.....	0	0	6	6	6	4	14	16	10	62
Crescent Lake.....	3	2	1	6	5	3	4	7	0	31
Estevan.....	2	3	3	3	2	6	4	6	2	31
Fort Qu'Appelle.....	1	7	15	4	5	1	15	12	2	62
Indian Head.....	6	9	4	4	9	22	4	32	3	93
Kamsack.....										
Larchmount (Pambrum).....	0	7	3	4	1	21	4	22	0	62
Muenster (St. Peter's Monastery).....	7	5	4	9	11	4	19	3	0	62
Onion Lake.....	2	1	10	1	0	0	5	12	0	31
Pense (Gatesgarth).....	0	1	0	13	0	2	5	10	0	31
Waseca.....	0	3	2	7	0	0	7	12	0	31
Yarbo (Fairfield).....	4	2	6	4	1	1	6	6	1	31
MANITOBA—										
Berens River.....										
Brandon.....	2	11	8	8	2	12	18	15	18	84
Hillview.....	0	5	14	14	0	7	5	48	0	93
Moose Horn Bay (Aitkensville).....	12	3	0	7	11	1	0	16	5	55
Morden.....	17	1	2	8	14	1	9	6	4	62
Oak Bank.....	11	3	1	6	6	9	2	22	2	62
Stony Mountain.....	8	7	5	2	16	3	4	15	0	60
ONTARIO—										
Agincourt.....	4	7	7	8	0	14	7	16	2	65
Alton.....	25	4	17	6	3	8	27	3	0	93
Beatrice.....	2	1	4	15	16	0	0	16	39	93
Birnam.....	8	1	5	6	13	7	9	9	4	62
Brucefield.....	6	6	4	11	13	7	5	10	0	62
Cottam.....	7	1	8	3	22	14	7	0	0	62
Gravenhurst.....	20	3	18	22	7	2	8	2	11	93
North Bruce.....	19	6	17	17	23	5	0	6	0	93
Orillia.....	2	2	3	2	5	3	5	4	0	26
Port Dover.....	13	5	9	5	2	13	12	13	0	62
Stoney Creek.....	3	16	3	19	3	10	36	3	0	93
Wexford.....	0	3	5	2	0	10	0	5	6	31
QUEBEC—										
Abitibi.....	28	6	10	8	22	2	10	7	0	93
Anticosti, Heath Point.....										
Anticosti, West Point.....										
Bicquet.....	8	14	3	0	37	11	4	14	2	93
Brome.....	17	3	7	3	19	14	23	7	0	93
Cape Chatte.....	5	5	15	1	0	9	22	3	33	93
Cape Magdalen.....	1	2	6	0	18	2	0	51	13	93
Cap Rouge.....	10	10	0	0	0	0	0	11	0	31
Cedars.....	3	12	0	1	0	2	9	4	0	31
Chicoutimi.....	1	10	1	5	0	2	9	7	58	93
Clarke City.....										
NEW BRUNSWICK—										
Dalhousie.....	0	0	4	1	0	1	24	1	0	31
Moncton.....	5	8	1	5	0	0	1	10	1	31
Pt. Lepreaux.....	18	29	3	5	2	10	2	12	0	81
Sussex.....	4	4	0	0	0	3	1	2	17	31
NOVA SCOTIA—										
Kentville.....	3	7	3	4	0	4	4	6	0	31
Liverpool.....	1	9	3	0	0	0	4	14	0	31
Sable Island, E. Pt.....										
Whitehead.....	5	4	4	4	2	2	0	10	0	31

MEAN PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY IN THE MONTH OF
JANUARY 1914.

STATION.	HOURS ENDING																	
	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.
Shawnigan Lake.....						.03	.17	.15	.17	.18	.14	.08	.02					
Victoria						T	.15	.17	.19	.24	.19	.14	.06					
Salmon Arm.....						.01	.04	.12	.16	.21	.21	.16	.07	.00	.02			
Nanaimo.....																		
Vancouver.....					T	.04	.10	.22	.23	.25	.17	.14	.09	T				
Agassiz.....							.01	.09	.11	.09	.06	.05	.01					
Tranquilla .....						.05	.11	.17	.23	.25	.21	.24	.14					
Summerland .....						.07	.15	.17	.21	.15	.14	.09	T					
Kamloops.....						.01	.08	.16	.20	.23	.21	.16	.01					
Harper's Ranch																		
Invermere.....						T	.13	.24	.34	.41	.37	.26						
Edmonton.....						.03	.22	.33	.39	.42	.44	.32	.08					
Lethbridge.....						.10	.31	.42	.47	.50	.50	.50	.45	.08				
Lacombe.....						.06	.24	.35	.39	.46	.42	.34	.19					
Medicine Hat.....						.07	.28	.41	.44	.47	.48	.41	.18					
Fort Dunvegan.....								.07	.25	.27	.24	.09						
Fort Vermilion.....																		
Battleford .....					.09	.41	.60	.66	.67	.71	.71	.55	.15					
Indian Head.....						.11	.32	.40	.47	.44	.45	.35	.16					
Moosejaw.....					.01	.20	.36	.41	.47	.47	.47	.35	.14					
Scott.....					.05	.36	.45	.50	.49	.52	.46	.26	.04					
Rosthern.....						.17	.37	.46	.50	.52	.48	.44	.25					
Brandon.....					T	.14	.23	.41	.44	.46	.40	.25	.03					
Winnipeg.....						.06	.17	.26	.33	.40	.35	.40	.25	T				
Le Pas.....						.01	.19	.22	.25	.28	.34	.30	.18					
Haileybury.....						.09	.25	.32	.29	.34	.34	.32	.20	.02				
Gravenhurst.....						.03	.11	.18	.27	.33	.30	.32	.29	.07				
Woodstock.....						.09	.14	.15	.19	.17	.16	.15	.12	.02				
Lindsay.....						.02	.17	.32	.38	.37	.34	.22	.26	.06				
Barrie.....						.12	.18	.21	.28	.19	.17	.13						
Toronto.....						.06	.15	.20	.29	.30	.23	.23	.21	.05				
Kingston.....					.01	.21	.31	.33	.32	.29	.30	.32	.19	.03				
Ottawa.....					.01	.27	.37	.38	.46	.45	.49	.44	.28	.04				
Montreal.....																		
Cap Rouge.....						.08	.17	.20	.28	.34	.36	.31	.12					
Quebec.....						.11	.21	.28	.41	.45	.44	.37	.26					
Ste. Anne de la Pocatiere.....					.16	.34	.41	.41	.38	.42	.44	.41	.01					
Sherbrooke.....						.06	.13	.35	.41	.41	.40	.36	.19					
Fredericton.....						.17	.30	.34	.43	.44	.44	.45	.44	.10				
Charlottetown.....						.14	.23	.28	.32	.27	.29	.28	.19	.02				
Nappan.....						.17	.31	.42	.46	.46	.41	.41	.31	.04				
Wolfville.....					.02	.19	.33	.45	.45	.48	.35	.35	.30	.05				
Keotville.....						.17	.30	.41	.46	.48	.45	.38	.29	.06				

SUMMARY OF SUNSHINE RECORDS

JAN., 1914		Shawinigan Lake	Victoria.	Salmon Arm.	Nanaimo.	Vancouver.	Agassiz.	Tranquille.	Sumnerland.	Kanloops.	Harper's Ranch	Invermere.	Edmonton.	Lethbridge.	Lacombe.	Medicine Hat.	Port Duvergan	Fort Vermilion	Battleford.	Indian Head.	Moose Jaw.	Scott.	Rosethorn.	Brandon.	Winnipeg.	Le Pas.	Haileybury.	Gravenhurst.	Woodstock.	Lindsay.	Barrie.	Toronto.	Kingston.	Ottawa.	Montreal.	Cap Rouge.	Quebec.	Ste. Anne de la Pociatiere.	Sherbrooke.	Frederton.	Charlottetown.	Nappan.	Wolville.	Kentville.
Registered duration in hours.....	29	35	31	39	13	43	30	33	..	55	70	103	76	85	28	..	141	83	89	97	93	74	69	52	67	59	36	70	40	53	71	99	58	79	92	73	96	63	92	92	93		
Percentage of possible duration	11	13	6	13	5	16	3	9	12	28	39	30	32	13	56	31	34	38	39	28	26	21	21	21	12	24	14	18	25	35	..	21	28	33	26	34	23	33	32	33		
Difference from average	-	-7	-	-	-13	-	-	-	-	-	-	-	-	-	-	-	+15	-2	-	-	-	-13	-15	-	-	-	-9	-1	-6	-9	-2	+6	-	-3	-	-	-5	-	-	-	-		
Maximum percentage in one day	67	50	51	67	35	67	54	77	63	78	85	84	83	60	92	82	86	91	90	83	83	83	83	84	84	80	74	88	90	93	...	76	85	89	83	87	88	88	91	88		
Date of maximum	31	8-31	9	27	11	9	1	5	28	24	28	12	12	19	25	13	10	11	23-29	21	23	29	13	5	13	13	13	5	25	1	25	11	21	11	6-18	13	20	15	15		
Number of days completely clouded	18	16	20	18	26	12	16	21	..	12	9	4	8	9	21	2	13	11	7	10	10	16	12	15	15	18	12	17	16	11	12	18	14	15	15	10	17	10	11	10		

Thunder recorded:

- 1.
2. Albern.
- 3.
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26. Nakusp.
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- 31.

Auroras recorded in January, 1914 :

1. Campsie IV.
2. Prince IV.
3. Prince IV.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
14. Sion IV.
- 15.
- 16.
- 17.
18. Causapscal.
- 19.
20. Sion III.
21. St. Albans II, Rutherglen IV, Schreiber IV, Edmonton II, Muenster IV, Prince III,
Sion III.
22. Muenster III.
- 23.
24. Morden.
- 25.
- 26.
27. Morden.
- 28.
- 29.
- 30.
31. Muenster.

FORECASTS FOR JANUARY 1914

The forecasts issued by this office at 11 p.m. each night, are for the 24 hours beginning at 8 a.m. the following day ; and are published in most morning newspapers.

The number of these predictions issued during the month was 1273. These were divided as follows :

District.	No. Issued.	VERIFIED.			
		No. Fully.	No. Partly.	No. Not.	Per- centage.
Alberta.....	89	63	18	8	80.9
Saskatchewan.....	87	62	17	8	81.0
Manitoba.....	88	59	23	6	80.1
Lake Superior.....	102	81	18	3	88.2
Lower Lake Region.....	118	95	14	9	86.4
Georgian Bay.....	118	93	15	10	85.2
Ottawa Valley.....	103	85	11	7	87.9
Upper St. Lawrence.....	103	86	10	7	88.3
Lower St. Lawrence.....	193	86	4	13	85.4
Gulf.....	114	98	6	10	88.6
Maritime Provinces West.....	124	95	14	15	82.3
Maritime Provinces East.....	124	90	17	17	79.4
Total.....	1273	993	167	113	84.6

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART, Director.

Meteorological Office, Toronto,
Feb. 28th, 1914.

